firmed acute proctitis. The zymodemes we found are those that produce no disease in parts of the world with endemic amoebiasis. Where is the evidence for invasion? McMillan and his colleagues postulated a toxin derived from *E histolytica* causing symptoms. Our work showed no cytotoxin of any sort in our patients harbouring *E histolytica* in their bowels.

Yours faithfully, D Goldmeir P G Sargeant

Praed Street Clinic, St Mary's Hospital, London W2 1NY

Correction

Control of hepatitis B and human T lymphotropic virus type III (HTLV-III) in homosexuals in Sheffield

This letter (Genitourin Med 1986;62:206) contained data from the department of genitourinary medicine of the General Infirmary, Leeds, by kind permission of Dr M Waugh. An acknowledgement of this was omitted in error.

Book review

Clinical aspects of AIDS and AIDS-related complex. Staquet M, Hemmer R, Baert A, eds, 1986. Oxford: Oxford University Press. Pp 209 including index. Price £25 (hardback).

This is a well produced book based on a symposium held in Belgium in October 1985. The papers are of uniformly high standard and the editors have ensured uniformity of style, though they understandably had to allow the introductions to each paper to be somewhat repetitive.

The first section deals with clinical presentations, clinical epidemiology, and natural history. Most accounts are descriptive and confirm previously held suspicions concerning the extent and nature of the problems. As one paper stated, almost on behalf of the others, "the clinical features observed are similar to those reported from elsewhere."

The second section deals with the infections seen in the acquired immune deficiency symdrome (AIDS), and comprises a review, fungal infections, aspects of mycobacterial infections seen in the United Kingdom, preliminary results of treatment for central nervous system toxoplasmosis, and treating patients with AIDS and crytposporidiosis with interferon and interleukin-2.

The third section deals with clinical immunology, laboratory tests, and

"diagnostics", and includes a useful paper on the diagnostic and prognostic value of lymph node biopsy.

The fourth section deals with treatment, and comprises reports on the use of interferon, interleukin-2, suramin (two papers), and DHPG (RS2192). Three of the five paper titles contain the qualification "preliminary", which adds to their interest and simultaneously suggests that by the time you read this review (or the book) more relevant information will be available. Interestingly there is some debate about the side effects of suramin, which "are similar to those already published in the treatment of onchocerciasis" (p 192), but on page 186 "these side effects, in our experience and that of others, seldom occur in the treatment of onchocerciasis". Such contradictions almost certainly reflect the problems of comparing relatively small trials derived from different population groups in differing stages of infection with human immunodeficiency virus (HIV): if the side effects are different this suggests that it would be even more difficult to draw generally relevant conclusions about treatment results from either study: more work is required.

If you require a review of all aspects of AIDS there are more integrated accounts available, and if you want up to date information and trial results there are the journals. As this book fulfills neither role and costs £25, I cannot judge it to be a good buy: it would have been an ideal journal supplement.

P D Welshy

Notices

Organisers of meetings who wish to insert notices should send details to the editor (address on the inside front cover) at least eight months before the date of the meeting or six months before the closing date for applications.

Sixth Latin American congress of sexually transmitted diseases

The sixth Latin American congress of sexually transmitted diseases will be held on 16 to 18 September 1987 in Guayaquil, Ecuador. It will be preceded by a theoretical and practical course on "The laboratory in the diagnosis of sexually transmitted diseases", which will be held on 14 and 15 September.

For further information please contact Dr J Felipe Aroca Campodonico, President of UECETS, Casilla 4733, Guayaquil, Ecuador.

5th Forum of international andrology (note new date)

The 5th forum of international andrology will be held in Paris on 6-8 July 1987.

Subjects will include male impotence, puberty and andropause, tumours of the testis, penile curvatures, urethritis, artificial insemination, and anti-androgens.

For further information please contact: Professor G Arvis, Department of Andrology-Urology, Hopital Saint-Antoine, 184 rue du Faubourg Saint-Antoine, F-75012 Paris, France (Tel: (1) 43 43 73 40, Telex: ARVIS 250 303 PUBLIC PARIS).

List of current publications

These selected abstracts and titles from the world literature are arranged in the following sections:

Syphilis and other treponematoses
Gonorrhoea
Non-specific genital infection and related
disorders (chlamydial infections; mycoplasmal
and ureaplasmal infections; general)
Pelvic inflammatory disease
Reiter's disease
Trichomoniasis

Candidodis
Genital herpes
Genital warts
Acquired immune deficiency syndrome
Other sexually transmitted diseases
Genitourinary bacteriology
Public health and social aspects
Miscellaneous

Syphilis and other treponematoses

Bladder dysfunction and neurosyphilis JS WHEELER, DJ CULKIN, RJ O'HARA, AND JR CANNING (Hines, USA). *J Urol* 1986; 136:903-5.

Treponema pallidum in human chancre tissue: an electron microscopic survey A POULSEN, T KOBAYASI, L SECHER, AND K WEISMANN (Copenhagen, Denmark). Acta Derm Venereol (Stockh) 1986;66:423-30.

Detection of immunoglobulin M in cerebrospinal fluid from syphilis patients by enzyme-linked immunosorbent assay JB LEE, CE FARSHY, EF HUNTER, EA HAMBIE, GH WOBIG, AND SA LARSEN (Seoul, South Korea). J Clin Microbiol 1986;24:736-40.

Cloning and expression of the major 47-kilodalton surface immunogen of Treponema pallidum in Escherichia coli MV NORGARD, NR CHAMBERLAIN, MA SWANCUTT, AND MS GOLDBERG (Dallas, USA). Infect Immun 1986;54:500-6.

Antibody-independent interactions of fibronectin, C1q and human neutrophilis with Treponema pallidum

RE BAUGHN (Houston, USA). Infect Immun 1986;54:456-64.

Gonorrhoea

Effect of holding temperature on isolation of Neisseria gonorrhoeae

KD EVANS, EM PETERSON, JI CURRY, JR GREENWOOD, AND LM de la MAZA (Orange, USA). J Clin Microbiol 1986;24:1109-10.

Evidence for N-terminal exposure of the protein 1A subclass of Neisseria gonorrhoeae protein 1

RC JUDD (Missoula, USA). Infect Immun 1986:54:408-14.

Gonorrhoea in heterosexual men: correlation between gonococcal W serogroup, Chlamydia trachomatis infection and objective symptoms

A-K RUDÉN, M BÄCKMAN, S BYGDEMAN, A JONSSON, O RINGERTZ, AND E SANDSTRÖM (Stockholm, Sweden). Acta Derm Venereol (Stockh) 1986:66:453-6.

Genetic analysis and penicillin binding protein alterations in Neisseria gonorrhoeae with chromosomally mediated resistance

TJ DOUGHERTY (Wallingford, USA). Antimicrob Agents Chemother 1986;30: 649-52.

High-level tetracycline resistance in Neisseria gonorrhoeae is result of acquisition of streptococcal tet M determinant SA MORSE, SR JOHNSON, JW BIDDLE, AND MC ROBERTS (Atlanta, USA). Antimicrob Agents Chemother 1986;30:664-70.

Genetics of resistance in a non β -lactamase-producing gonococcus with relatively high-level penicillin resistance H FARUKI AND PF SPARLING (Chapel Hill, USA). Antimicrob Agents Chemother 1986; 30:856-60.

In vitro activity of the two new 4-quinolones A 56619 and A 56620 against Neisseria gonorrhoeae, Chlamydia trachomatis, Mysoplasma hominis, Ureaplasma urealyticum and Gardnerella vaginalis

KH TJIAM, JHT WAGENVOORT, B van

KLINGEREN, P PIOT, E STOLZ, AND MF MICHEL (Rotterdam, the Netherlands). Eur J Clin Microbiol 1986;5:498-501.

Comparative study of cefoperazone and spectinomycin for the treatment of uncomplicated gonorrhea in men

EW HOOK, FN JUDSON, MS VERDON, JM EHRET, AND HH HANDSFIELD (Baltimore, USA). Antimicrob Agents Chemother 1986;30: 619-21.

Prevention of gonococcal ophthalmia neonatorum

HC DILLON (Birmingham, USA). N Engl J Med 1986;315:1414-5.

Single dose therapy of gonococcal ophthalmia neonatorum with ceftriaxone M LAGA, W NAAMARA, RC BRUNHAM, ET AL (Winnipeg, Canada). N Engl J Med 1986;315:1382-5.

Non-specific genital infection and related disorders (chlamydial infections)

Asymptomatic Chlamydia trachomatis infections among sexually active men GH KARAM, DH MARTIN, TR FLOTTE, ET AL (New Orleans, USA). J Infect Dis 1986; 154:900-3.

Persistent neonatal chlamydial infection in a 6-year-old girl

K STENBERG AND P-A MÅRDH (Goteburg, Sweden). Lancet 1986;ii:1278-9.

Experimental proctitis due to rectal infection with *Chlamydia trachomatis* in nonhuman primates

TC QUINN, HR TAYLOR, AND J SCHACHTER (Baltimore, USA). J Infect Dis 1986;154: 833-41.

Effect of blind passage and multiple sampling on recovery of *Chlamydia* trachomatis from urogenital specimens

RB JONES, BP KATZ, B VAN DER POL, VA CAINE, BE BATTEIGER, AND WJ NEWHALL (Indianapolis, USA). *J Clin Microbiol* 1986;**24**: 1029-33.

Evaluation of the modified Chlamydiazyme immunoassay for the detection of chlamydial antigen

RA LEVY AND AL WARFORD (North Hollywood, USA). Am J Clin Pathol 1986; 86:330-5.

Accuracy of immunoglobulin M immunoassay for diagnosis of chlamydial infections in infants and adults

JB MAHONY, MA CHERNESKY, K BROMBERG, AND J SCHACHTER (Hamilton, USA). J Clin Microbiol 1986;24:731-5.

Failure of norfloxacin to eradicate Chlamydia trachomatis in nongonococcal urethritis

WR BOWIE, V WILLETTS, AND L SIBAU (Vancouver, Canada). Antimicrob Agents Chemother 1986;30:594-7.

Non-specific genital infection and related disorders (general)

The characterization of bacterial and nonbacterial prostatitis by prostatic immunoglobulins

LMD SHORTLIFFE AND N WEHNER (Stanford, USA). *Medicine* 1986:**65:**399-414.

Pelvic inflammatory disease

Antibiotic treatment of pelvic inflammatory disease: trends among private physicians in the United States, 1966 through 1983

DA GRIMES, JH BLOUNT, J PATRICK, AND AE WASHINGTON (Atlanta, USA) JAMA 1986;256:3223-6.

Treatment of pelvic inflammatory disease: use doxycycline with an appropriate β -lactam while we wait for better data

P WØLNER-HANSSEN, D ESCHENBACH, J PAAVONEN, AND KK HOLMES (Seattle, USA). JAMA 1986;256:3262-3.

Reiter's disease

Chlamydia trachomatis and reactive arthritis

A KEAT, B THOMAS, J DIXEY, M OSBORN, C SONNEX, AND D TAYLOR-ROBINSON (London, England). Lancet 1987; i:72-4.

Sexually acquired reactive arthritis (SARA) is a complication that occurs in 1% of men with sexually transmitted non-gonococcal urethritis. About half the cases of SARA are associated with *Chlamydia trachomatis* infection in the genital tract. Though *C trachomatis* has not been isolated from material from the joints of these patients, several observations have suggested the possibility of the presence of *C trachomatis* or its antigenic fragments in the joints.

In this study synovium or synovial fluid cell deposit, or both, from eight patients with SARA and eight with knee effusions associated with other rheumatic conditions were examined using a fluorescein labelled monoclonal antibody to C trachomatis (Microtrak, Syva). Chlamydial elementary bodies were detected in five of the patients with SARA but none of the other eight patients. All five patients had serum chlamydial antibody at a titre of $\geq 1/64$ and one yielded C trachomatis from the genital tract. The control group had no serological evidence of C trachomatis. In neither group could C trachomatis be isolated from the ioints.

The monoclonal antibody technique has been shown to be highly sensitive and specific for C trachomatis in genital tract and ocular specimens. Its applicability for other sites has not been established. There is little doubt, however, that the particles seen in joint material from the patients in this study were truly chlamydial. Whether they were in a viable form is not known. That they could not be cultured may have been because the organism was dead or because the antibody in synovial fluid interfered with isolation. Further efforts to culture the virus from joint material are essential. A direct causal link between arthritis and the presence of chlamydiae in the joint has important implications as early treatment by intraarticular or intravenous administration of antibiotic may be more effective than oral antibiotics. The use of fluorescent antibody techniques in any investigation to prove the link is, however, frought with the danger of spurious results in the hands of inexperienced workers.

K Sankar

Trichomoniasis

The possible role of *Trichomonas* vaginalis as a "vector" for the spread of other pathogens

LG KEITH, J FRIBERG, N FULLAN, R BAILEY, AND GS BERGER (Chicago, USA). Int J Fertil 1986;31:272-7.

Detection of *Trichomonas vaginalis* in vaginal specimens by direct immuno-fluorescence assay

RF SMITH (Martinez, USA). J Clin Microbiol 1986;24:1107-8.

Candidosis

A macrophage defect in women with recurrent Candida vaginitis and its reversal in vitro by prostaglandin inhibitors SS WITKIN, J HIRSCH, AND WJ LEDGER (New York, USA). Am J Obstet Gynecol 1986; 155:790-5.

Recurrent vulvovaginal candidiasis: a prospective study of the efficacy of maintainance ketoconazole therapy

JD SOBEL (Detroit, USA). N Engl J Med 1986;315:1455-8.

Systemic absorption of miconazole from the vagina

TK DANESHMEND (Plymouth, England). J. Antimicrob Chemother 1986;18:507-11.

Genital herpes

Suitability of new chlamydia transport medium for transport of herpes simplex virus

DL BARNARD, K FARNES, DF RICHARDS, GE CROFT, AND FB JOHNSON (Provo, USA). J Clin Microbiol 1986;24:692-5.

Interferon in the prevention of genital herpes recurrence

LJ ERON, L HARVEY, C TOY, AND D SANTOMAURO (Annandale, USA). Antimicrob Agents Chemother 1986;30: 608-10.

Genital warts

Genital tract papillomavirus type 6 in recurrent conjunctival papilloma

Z NAGASHFAR, PJ McDONNELL, JM McDONNELL, WR GREEN, AND KV SHAH (Baltimore, USA). Arch Ophthalmol 1986; 104:1814-5.

An infant boy born by vaginal delivery to a mother who was noted to have vaginal condylomata at the time of delivery developed a papillomatory lesion of the right inferior palpebral conjunctiva at 4 months. Excision was performed at 11 months, and human papilloma virus (HPV) type 6 was identified by in situ hybridisation of paraffin sections.

At 26 months, the patient was noted to have a papillomatous lesion of the soft palate, and endoscopy showed further papillomatory lesions of the right and left false vocal cords. These lesions were excised using carbon dioxide laser. At 29 months, recurrent papillomas were noted, this time of the superior palpebra conjunctiva of the right eye and the soft palate. Both were excised, and HPV type 6 was once again identified in tissue from the conjunctival lesion by Southern transfer hybridisation. The patient remained free of recurrent lesions one year later.

Despite the fact that no attempt was made to identify the human papilloma virus responsible for the maternal condylomata, as the onset of the conjunctival papillomas was early and a genital tract papilloma virus was identified, the patient probably acquired wart virus infection from his mother at the time of delivery. Identification of HPV type 6 from the conjunctiva and respiratory tract is consistant with its known prediliction for mucosal surfaces.

Of interest is the long period from excision of the first papilloma at 11 months to the recurrence noted in the same eye (upper rather than lower lid) at 29 months. Can this be attributed to latency of the virus or, in view of the presence of respiratory papillomas, does this represent reinfection after contact with infected respiratory secretions? Human papilloma virus infection must, however, be added to the list of sexually transmitted diseases known to cause ocular infection in infants after exposure during passage through an infected birth canal.

WC Stack

Human papillomavirus in clinically and histologically normal tissue of patients with genital cancer

JCM MACNAB, SA WALKINSHAW, JW

CORDINER, AND JB CLEMENTS (Glasgow, Scotland). N Engl J Med 1986;315:1052-8.

Cytologic detection of condylomas and cervical intraepithelial neoplasia of the uterine cervix with histologic correlation SM SELVAGGI (Taylor, USA). Cancer 1986;58:2076-81.

Human papillomavirus infection of the uterine cervix of women without cytological signs of neoplasia

PG TOON, JR ARRAND, LP WILSON, AND DS SHARP (Manchester, England). Br Med J 1986:293:1261-4.

Human papillomavirus genomes in penile smears of healthy men

E-I GRUSSENDORF-CONEN, E-M de VILLIERS, AND LGISSMANN (Aachen, Federal Republic of Germany). *Lancet* 1986; ii:1092.

Evaluation of male consorts of women with genital human papilloma virus infection PK SAND, LW BOWEN, SO BLISCHKE, AND DR OSTERGARD (Irvine, USA). Obstet Gynecol 1986:68:679-81.

Use of biotinylated DNA probes in screening cells obtained from cervical swabs for human papillomavirus DNA sequences

R NEUMANN, B HEILES, C ZIPPEL, ET AL (Marburg, Federal Republic of Germany). Acta Cytologica 1986;30:603-7.

Histological and immunocytochemical study of cervical intraepithelial neoplasia (CIN) with associated HPV 6 and HPV 16 infections

D JENKINS, SK TAY, DJ McCANCE, MJ CAMPION, PK CLARKSON, AND A SINGER (London, England). J Clin Pathol 1986;39:1177-80.

Human genital papilloma infections: an evaluation of immunologic competence in the genital neoplasia-papilloma syndrome LF CARSON, LB TWIGGS, M FUKUSHIMA, ETAL (Minneapolis, USA). Am J Obstet Gynecol 1986;155:784-9.

Interferon therapy for condylomata acuminata

LJ ERON, F JUDSON, S TUCKER, ET AL (Falls Church, USA). N Engl J Med 1986;315: 1059-64.

The effect of interferon on human papillomaviruses associated with cervical intraepithelial neoplasia

MA BYRNE, BR MØLLER, D TAYLOR-ROBINSON, ET AL (Harrow, England). Br J Obstet Gynaecol 1986;93:1136-44.

Prophylatic topical 5-fluorouracil following treatment of human papillomavirus-associated lesions of the vulva and vagina H-B KREBS (Richmond, USA). Obstet Gynecol 1986:62:837-41.

Acquired immune deficiency syndrome

The clinical features of HIV infection in Africa

RJ BIGGAR (Bethesda, USA). Br Med J 1986;293:1453-4.

Severe illness associated with appearance of antibody to human immunodeficiency virus in an African

RJ BIGGAR, BK JOHNSON, SS MUSOKE, ET AL (Bethesda, USA). Br Med J 1986;293: 1210-1.

Initial manifestation of acquired immunodeficiency syndrome in the head and neck region

J HELSPER, S FORMENTI, AND A LEVINE (Pasadena, USA). Am J Surg 1986;152: 403-6.

Acquired immunodeficiency syndrome manifested by chronic primary genital herpes

JA MAIER, A BERGMAN, AND MG ROSS (Torrance, USA). Am J Obstet Gynecol 1986;155:756-8.

Eosinophilic vasculitis leading to amaurosis fugax in a patient with acquired immunodeficiency syndrome

ND SCHWARTZ, YT SO, HHOLLANDER, SALLEN, AND KH FYE (San Fransico, USA). Arch Intern Med 1986;146:2059-60.

Cardiac involvement in congenital acquired immunodeficiency syndrome

LJ STEINHERZ, JA BROCHSTEIN, AND J ROBINS (New York, USA). Am J Dis Child 1986; 140:1241-4.

Human T-cell lymphotropic virus type III infection of the central nervous system: a preliminary in situ analysis

MH STOLER, TA ESKIN, S BENN, RC ANGERER, AND LM ANGERER (Rochester, USA). JAMA 1986;256:2360-4.

Neuroradiologic findings in AIDS: a review of 200 cases

RM LEVY, S ROSENBLOOM, AND LV PERRETT (San Francisco, USA). Am J Roentgenol 1986;147:977-83.

Neuropathology of acquired immunodeficiency syndrome (AIDS): an autopsy review

CK PETITO, E-S CHO, W LEMANN, BA NAVIA, AND RW PRICE (New York, USA). J Neuropathol Exp Neurol 1986;45:635-46.

The acquired immune deficiency syndrome (AIDS) and suicidal behaviour in alcohol-dependent homosexual men DK FLAVIN, JE FRANKLIN, AND RJ FRANCES (New York, USA). Am J Psychiatry 1986; 143:1440-2.

Neurologic manifestations of human immunodeficiency virus infection in children

LG EPSTEIN, LR SHARER, JM OLESKE, ET AL (Newark, USA). Pediatrics 1986;78:678-87

Virus isolation from and identification of HTLV-III/LAV-producing cells in brain tissue from a patient with AIDS

S GARTNER, P MARKOVITS, DM MARKOVITZ, RF BETTS, AND M POPOVIC (Bethesda, USA). JAMA 1986;256:2365-71.

Detection of HTLV-III RNA in lungs of patients with AIDS and pulmonary involvement

KJ CHAYT, ME HARPER, LM MARSELLE, ET AL (Bethesda, USA). JAMA 1986;256:2356-9

Transmission of human immunodeficiency virus (HIV/HTLV-III/LAV): a review

M van der GRAAF AND RJA DIEPERSLOOT (Amsterdam, the Netherlands). *Infection* 1986:14:203-11.

Sexual transmission of human immunodeficiency virus

TA PETERMAN AND JW CURRAN (Atlanta, USA). JAMA 1986;256:2222-6.

Evidence for heterosexual transmission and clinical manifestations of human immunodeficiency virus infection and related conditions in Lusaka, Zambia

M MELBYE, EK NJELESANI, A BAYLEY, ET AL (Aarhus, Denmark). Lancet 1986;ii:1113-5

A hospital based survey of the distribution of human immunodeficiency virus (HIV) antibodies in inpatients, outpatients, and healthy subjects (antenatal clinic attenders, hospital workers, and blood donors) was carried out in Lusaka, Zambia.

One thousand and seventy eight consecutive subjects, all seen on one day, underwent

standardised interview and clinical examination. Serum samples were tested for the presence of antibodies to human immunodeficiency virus (HIV) using a competitive enzyme linked immunosorbent assay (ELISA), and random samples and those giving borderline results were tested further using a western blot assay and gamma immunoglobulin capture assay. Of the 25 borderline results, 15 were seropositive on further confirmatory testing. One hundred and eighty nine (18%) people were HIV antibody positive, the age range in men being 30-35 years and in women 20-25 years, and the difference in seropositivity of men and women was not significant. Longer duration of education was appreciably associated with seropositivity. The incidence of infection was highest in patients attending sexually transmitted diseases (STD) (29%) and dermatology (27%) clinics and lowest in women attending antenatal clinics (9%) and orthopaedic patients (9%). The incidence was significantly high in STD (p = 0.0004), dermatology (p = 0.007) and surgery (p = 0.02) wards (excluding trauma and orthopaedics) where several seropositive patients were receiving treatment for urethral strictures or fistulas. Hospital workers (19%) and blood donors (18%) were not thought to be representative because they had a higher educational level than the general popula-Seropositivity was appreciably associated in healthy subjects with skin rashes and generalised lymphadenopathy, and in ill patients with infectious diseases and HIV related problems, such as herpes zoster, oral candidiasis, diarrhoea, and tuberculosis. Similar percentages (29% to 38%) of patients attending STD clinics suffering from syphilis. chancroid. lymphogranuloma venereum, or herpes genitalis, had antibodies to HIV. No STD was specifically associated with seropositivity, and previous attenders were more likely to acquire HIV infection than first time attenders.

This paper suggests that HIV infection and its related problems, other than AIDS associated Kaposi's sarcoma, are now prevalent in Africa in young sexually active people, and that the virus is heterosexually transmitted. The authors conclude that the infection has only recently been introduced there, a fact that has important implications in the subsequent prevention of the disease in this part of Africa.

B P Goorney

Vaginal transmission of human immunodeficiency (HIV) to a chimpanzee

PN FULTZ, HM McCLURE, H DAUGHARTY, ET AL (Atlanta, USA). J Infect Dis 1986;154:896HIV seroprevalence among hospital workers Kinshasa, Zaire: lack of association with occupational exposure

JM MANN, H FRANCIS, TC QUINN (Atlanta, USA). JAMA 1986;256:3099-102

Minimum size of the acquired immunodeficiency syndrome (AIDS) epidemic in the United States

R BROOKMEYER AND MH GAIL (Baltimore, USA). Lancet 1986;ii:1320-2.

Medical care costs of AIDS in Massachusetts

GR SEAGE, S LANDERS, MA BARRY, J GROOPMAN, GA LAMB, AND AM EPSTEIN (Boston, USA). *JAMA* 1986;**256**:3107-9.

Medical care costs of patients with AIDS in San Francisco

AA SCITOVSKY, M CLINE, AND PR LEE (Palo Alto, USA). JAMA 1986;256:3103-6.

The Vancouver lymphadenopathy-AIDS study: 5. Antecedent behavioural clinical and laboratory findings in patients with AIDS and HIV-seropositive controls

WJ BOYKO, MT SCHECHTER, KJP CRAIB, ET AL (Vancouver, Canada). Can Med Assoc J 1986;135:881-7.

Evaluation of three commercial screening tests for AIDS virus antibodies

JR CARLSON, SH HINRICHS, J YEE, MB GARDNER, AND NC PEDERSEN (Davis, USA). Am J Clin Pathol 1986;86:357-9.

Variations in western blot banding patterns of human T-cell lymphotropic virus type III/lymphadenopathy-associated virus

DS BURKE, RR REDFIELD, P PUTMAN, AND SS ALEXANDER (Washington, USA). J Clin Microbiol 1987;25:81-4.

Salivary antibodies as a means of detecting human T cell lymphotropic virus type III/lymphadenopathy-associated virus infec-

DW ARCHIBALD, LI ZON, JE GROOPMAN, JS ALLAN, MF McLANE, AND ME ESSEX (Boston, USA). J Clin Microbiol 1986;24:873-5.

Persistent HIV antigenaemia and decline of HIV core antibodies associated with transition to AIDS

JMA LANGE, F de WOLF, SA DANNER, ET AL (Amsterdam, the Netherlands). Br Med J 1986;293:1459-62.

Serological markers in early stages of human immunodeficiency virus infection in haemophiliacs

J-P ALLAIN, Y LAURIAN, D PAUL, D SENN, AND MEMBERS OF THE AIDS-HAEMOPHILIA FRENCH STUDY GROUP (North Chicago, USA). Lancet 1986;ii:1233-6.

Serological events were studied in 40 patients with haemophilia who sero-converted in sequential tests by a screening enzyme linked immunosorbent assay (ELISA) for antibody to human immuno-deficiency virus (HIV). Three assays were used: a "sandwich" assay for HIV based on a solid phase coated with human anti-HIV, a probe of rabbit antiserum to HIV, and a goat anti-rabbit enzyme conjugate; a competitive ELISA for antibody to purified rDNA envelope protein (mainly gp41, anti-env); and a second competitive ELISA for anti-rDNA HIV core protein (mainly p24, anti-core).

Though not all subjects were tested regularly, six were found to have HIV antigen alone and three HIV antigen plus anti-env before seroconversion in the screening ELISA. At seroconversion seven subjects had antigen, four with anti-env, but of these seven none had anti-core. All subjects became antigen negative when anti-core appeared. In these haemophiliacs the interval from the appearance of the first serological marker (antigen or anti-env, or both) to seropositivity in the ELISA screening test was 1 to 3½ months, somewhat longer than found in homosexual men in other work referred to in the paper (the interval may also be inflated by sampling delay inevitable in studies of this sort).

In discussion, the authors emphasise the relation between loss of antigen and the appearance of anti-core (anti-p24). They attribute the late detectability of anti-p24 either to p24 being less antigenic than p41, or to antigen complexing anti-p24 for longer, or to the high sensitivity of the anti-gp41 assay. The assays used might have a role in the earlier detection of HIV infection, as they give positive results two weeks to five months after known exposure. Physicians in genitourinary medicine will also be interested in the observation reported in the paper that there was a decrease or loss of anti-p24 in patients with AIDS and that 75% of 52 of them had detectable HIV antigen. The authors suggest that the antigen detected is p24 and that the reactivity of these novel assays depends on the balance of this antigen in the specimens. This balance seems to change at the beginning of HIV infection and again if end stage HIV related disease develops. The detection

of the latter change might be a prognostic indication, and this point deserves further investigation.

P P Mortimer

Immunological abnormalities in asymptomatic homosexual men: correlation with antibody to HTLV-III and sequential changes over two years

IH FRAZER, IR MACKAY, RM CRAPPER, ET AL (Melbourne, Australia). Q J Med 1986; 61:921-33.

Serum amyloid protein A (SAA): an indicator of inflammation in AIDS and AIDS-related complex (ARC)

A HUSEBEKK, H PERMIN, AND G HUSBY (Tromsø Norway). Scand J Infect Dis 1986:18:389-94.

Structural characterization of reverse transcriptase and endonuclease polypeptides of the acquired immunodeficiency syndrome retrovirus

MM LIGHTFOOTE, JE COLIGAN, TM FOLKS, AS FAUCI, MA MARTIN, AND S VENKATESAN (Bethesda, USA). J Virol 1986:60:771-5.

HLA-associated susceptibility to acquired immunodeficiency syndrome in Italian patients with human-immunodeficiencyvirus infection

RS SMERALDI, G FABIO, A LAZZARIN, NB EISERA, M MORONI, AND C ZANUSSI (Milan, Italy). *Lancet* 1986:ii:1187-9.

Enhanced serological and virological findings of Epstein-Barr virus in patients with AIDS and AIDS-related complex

CV SUMAYA, RN BOSWELL, Y ENCH, ETAL (San Antonio, USA). J Infect Dis 1986;154:864-70.

Induction of CD4-dependent cell fusion by the HTLV-III/LAV envelope glyco-protein

JD LIFSON, MB FEINBERG, GR REYES (San Carlos, USA). Nature 1986;323:725-8.

HTLV-III/LAV-neutralizing antibodies to an *E coli*-produced fragment of the virus envelope

SD PUTNEY, TJ MATTHEWS, WG ROBEY, ET AL (Cambridge, USA). Science 1986;234: 1392-5.

Adolescents and AIDS: a survey of knowledge, attitudes and beliefs about AIDS in San Francisco

RJ DICLEMENTE, J ZORN, AND L TEMOSHOK (San Francisco, USA). Am J Public Health 1986;76:1443-5.

Public knowledge of AIDS and the DHSS advertisement campaign

S MILLS, MJ CAMPBELL, AND WE WATERS (Southampton, England). *Br Med J* 1986; 293:1089-90.

Willingness of homosexual and bisexual men in London to be screened for human immunodeficiency virus

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EBV shedding from sites other than the oropharynx has not previously been described. In this study detection of infectious EBV in cervical specimens from women with infectous mononucleosis as well as women with serological evidence of past infection suggests that the uterine cervix may be a site for chronic viral shedding. The authors suggest that sexual transmission of EBV is possible and orogenital transmission is likely. They raise the possibility of perinatal spread during vaginal delivery and a possible oncogenic role in carcinoma of the cervix.

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